

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

ويس

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,982	09/19/2003	Tzvi Avnery	2251.2002-009	8622
	7590 12/04/200 BROOK, SMITH & RE	EXAMINER		
530 VIRGINIA ROAD			MAYEKAR, KISHOR	
	P.O. BOX 9133 CONCORD, MA 01742-9133		ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
	•		12/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/666,982	AVNERY, TZVI
	Office Action Summary	Examiner	Art Unit
		Kishor Mayekar	1795
Pariod f	The MAILING DATE of this communication app or Reply	ears on the cover sheet wi	th the correspondence address
	OF REPLY HORTENED STATUTORY PERIOD FOR REPLY	VIC SET TO EVOIDE 2 MA	ONITH(S) OR THIRTY (20) DAVE
WHIC - Exte after - If NC - Failt Any	CHEVER IS LONGER, FROM THE MAILING DA ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MON, , cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status			
1)[🛛	Responsive to communication(s) filed on 24 So	eptember 2007.	
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.	
3)[Since this application is in condition for allowar	nce except for formal matte	ers, prosecution as to the merits is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.
Disposit	tion of Claims		
4)🛛	Claim(s) 1-5, 24 and 25 is/are pending in the a	pplication.	
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	
5)[Claim(s) is/are allowed.		
· —	Claim(s) 1-5, 24 and 25 is/are rejected.		
	Claim(s) is/are objected to.		
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.	
Applicat	tion Papers		
9)[The specification is objected to by the Examine	r.	
10)[The drawing(s) filed on is/are: a) acce	epted or b)⊡ objected to t	by the Examiner.
	Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correct	•	
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.
Priority (under 35 U.S.C. § 119		
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).
a)	l All b) Some * c) None of:		
	1. Certified copies of the priority documents		
	2. Certified copies of the priority documents	•	
	 Copies of the certified copies of the prior application from the International Bureau 		received in this National Stage
* 6	See the attached detailed Office action for a list		received.
Attachmen	• •	🗖 :	
_	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		formal Patent Application

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Page 2

Application/Control Number:

10/666,982

Art Unit: 1795

DETAILED ACTION

1. Applicant's arguments with respect to claims 1-5 and new claims 24 and 25 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reuter et al. (US 4,595,569) in view of Helfritch et al. (US 5,695,616). Reuter's invention is directed to a device for desulphurizing and denitrating flue gases by electron beam irradiation to which ammonia has been added prior to the irradiation. Reuter discloses in Figs. 1 and 2 that the device comprises the recited duct and first and second electron beam emitters. The difference between Reuters and the above claims is the provision that the duct has a port for introducing a reaction reagent into the duct to the gases. Helfritch teaches in a device for treating flue gases by irradiation with electron beam the limitation (Fig. 1). The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Reuters'

Application/Control Number:

10/666,982

Art Unit: 1795

teachings as shown by Helfritch because this would result in adding the ammonia to the

flue gas.

As to the subject matter of claim 5, since it is not a structure, it cannot be given

Page 3

any patentable weight.

4. Claims 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Reuter' 569 as modified by Helfritch '616 as applied to claims 1-5 above, and further in

view of Namba et al. (US 5,244,552) and Hirai (US 5,015,442). The difference between

the references as applied above and the instant claims is the provision of the recited

reactive bed. Namba teaches in an apparatus for gas treatment by electron beam

irradiation that that ozone is formed during the treatment (col. 3, lines 49-52). Hirai

teaches in a device for treating air the provision of particulate catalyst to remove ozone

therefrom (Fig. 1). The subject matter as a whole would have been obvious to one having

ordinary skill in the art at the time the invention was made to have modified the

references' teachings as shown by Namba and Hirai because this would result in removing

ozone generated during the treatment. Further, it has been held that the motivation to

make a specific structure is always related to the properties or uses one skilled in the art

would expect the structure to have, In re Newell 13 USPQ 2d 1248, Fromson v. Advance

Offset Plate 225 USPQ 26; In re Gyurik 201 USPQ 552.

Application/Control Number:

10/666,982

Art Unit: 1795

Page 4

Response to Arguments

5. Applicant's arguments filed 24 September 2007 have been fully considered but

they are not persuasive because of the new ground of rejections as set forth in the

paragraphs above.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

advisory action. In no event, however, will the statutory period for reply expire later than

SIX MONTHS from the date of this final action.

Page 5

Application/Control Number:

10/666,982

Art Unit: 1795

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-

1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-9199 (IN

USA OR CANADA) or 571-272-1000.

Kishor Mayekar Primary Examiner

Art Unit 1795